



Sheet 1 of 3

Form PTO-1449

ATTY DOCKET NO.: 10-98 G	SERIAL NO.: 09/688,055	FILING DATE: 10/13/00
APPLICANT(S): Holl, M.R. et al.		GROUP ART UNIT: 1743

Originally filed in 09/080,691

U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
(B)		4,726,929	02/23/88	Gropper et al.	422	68	
		4,894,146	01/16/90	Giddings	209	12	
		4,908,112	03/13/90	Pace	204	299 R	
		4,963,498	10/16/90	Hillman et al.	436	69	
		4,983,038	01/08/91	Ohki et al.	356	246	
		5,007,732	04/16/91	Ohki et al.	356	73	
		5,141,651	08/25/92	Giddings	210	748	
		5,240,618	08/31/93	Caldwell et al.	210	748	
		5,250,263	10/05/93	Manz	422	81	
		5,288,463	02/22/94	Chemelli	422	58	
		5,376,252	12/27/94	Ekström et al.	204	299 R	
		5,480,614	01/02/96	Kamahori	422	70	
		5,500,071	03/19/96	Kaltenbach et al.	156	272.8	
		5,585,069	12/17/96	Zanzucchi et al.	422	100	
		5,599,503	02/04/97	Manz et al.	422	82.05	
		5,627,041	05/06/97	Shartle	435	7.24	
		5,637,469	06/10/97	Wilding et al.	435	7.21	
		5,639,423	06/17/97	Northrup et al.	122	50	
		5,674,743	10/07/97	Ulmer	435	287.2	
		5,681,484	10/28/97	Zanzucchi et al.	216	2	
		5,716,852	02/10/98	Yager et al.	436	172	
		5,726,751	03/10/98	Altendorf et al.	356	246	
(B)		5,748,827	05/05/98	Holl et al.	385	134	

Kelli Bers 1/25/03

I P E
JAN 19 2001
PATENT TRADEMARKS US

Sheet 2 of 3

Form PTO-1449							
ATTY DOCKET NO.: 10-98 G		SERIAL NO.: 09/688,055		FILING DATE: 10/13/00			
APPLICANT(S): Holl, M.R. et al.				GROUP ART UNIT: 1743			

Originally filed in 09/080,691

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No
<i>CB</i>		WO 96/04547	15.02.96	PCT	G01N	27/00	
		WO 96/14934	23.05.96	PCT	B01L	3/00	
		WO 97/02357	23.01.97	PCT	C12P	19/34	
		WO 97/39338	23.10.97	PCT	G01N	21/64	
		0 294 701 B1	02.09.92	EPO	G01N	15/14	
		0 381 501 B1	08.06.94	EPO	C12Q	1/68	
		0 288 029 A2	26.10.88	EP	G01N	21/05	
		25 21 236 A1	18.11.76	DT	G01N	15/00	NO
<i>CB</i>		0 645 169 A1	29.03.95	EPO	B01D	21/00	NO

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

<i>CB</i>		<i>Elwenspoek, M. et al. (1994) "Towards integrated microliquid handling systems" J. Micromech. Microeng. 4:227-243</i>
		<i>Gravesen, P. et al. (1993) "Microfluidics - a review" J. Micromech. Microeng. 3:168-182</i>
		<i>Kikuchi, Y. et al. (1992) "Optically accessible microchannels formed in a single-crystal silicon substrate for studies of blood rheology" Microvas. Res. 44:226-240</i>
		<i>Manz, A. et al. (1993) "Planar chips technology for miniaturization of separation systems: A developing perspective in chemical monitoring," <u>Advances in Chromatography</u>, Vol 33, Ch. 1, Pp. 1-67</i>
		<i>Miyake, R. et al. (1991) "A development of microsheath flow chamber" Proceedings of the IEEE MicroElectro Mechanical Systems Workshop 265-270.</i>
		<i>Petersen, K.E. (1982) "Silicon as a mechanical material" Proceedings of the IEEE 70(5):420-457</i>
		<i>Shoji, S. and Esashi, M. (1994) "Microflow devices and systems" J. Micromech Microeng. 157-171</i>
<i>CB</i>		<i>Sobek, D. et al. (1993) "A microfabricated flow chamber for optical measurements in fluids" Proceedings of the IEEE MicroElectro Mechanical Systems Workshop 219-224</i>

Kathy Box 1623 603



<p>Form PTO-1449</p> <p style="text-align: center;"><i>TRADE SHOW</i></p>		
ATTY DOCKET NO.: 10-98 G	SERIAL NO.: 09/688,055	FILING DATE: 10/13/00
APPLICANT(S): Holl, M.R. et al.		GROUP ART UNIT: 1743

Originally filed in 09/080,691

		<i>Sobek, D. et al. (1994) "Microfabricated fused silica flow chambers for flow cytometry" Proceedings of Solid-State Sensors and Actuators Workshop, Hilton Head, SC</i>
<i>G</i>		<i>Verpoorte, E. et al. (1992) "A silicon flow cell for optical detection in miniaturized total chemical analysis systems" Sensors and Actuators 8:66-70</i>
<i>I</i>		<i>Verpoorte, E. M. J. et al. (1994) "Three-dimensional micro flow manifolds for miniaturized chemical analysis systems" J. Micromech. Microeng. 4:246-256</i>
<i>G</i>		<i>Wilding, P. et al. (1994) "Manipulation and flow of biological fluids in straight channels micromachined in silicon" Clin. Chem. 40(1):43-47</i>

12/20/89

DATE CONSIDERED

✓25103

***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

TECHNICAL
BRIEFS

卷之三



Form PTO 1449			
ATTY DOCKET NO. 10-98G	SERIAL NO. 09/688,055	FILING DATE 10/13/00	
APPLICANT Holl et al.		GROUP 1743	

Originally filed in 09/080,691

U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
CS		5,707,799	01/13/98	Hansmann et al.	435	6	
		5,863,502	01/26/99	Southgate et al.	422	58	
		5,919,711	07/06/99	Boyd et al.	436	178	
		5,755,942	05/26/98	Zanzucchi et al.	204	454	
		5,147,607	09/15/92	Mochida	422	57	
		5,744,366	04/28/98	Kricka et al.	436	63	
BS		5,500,187	03/19/96	Deoms et al.	422	58	

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

12/20/89



Form PTO 1449							
ATTY DOCKET NO. 10-98G		SERIAL NO. 09/688,055		FILING DATE 10/13/00			
APPLICANT Holl et al.				GROUP 1743			

Originally cited by Examiner in 09/080,691

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
0	5,601,727	2/97	Bormann et al.	210	767	
1	5,736,100	4/98	Miyake et al.	422	64	
	5,225,163	7/93	Andrews	422	61	
	5,039,617	8/91	McDonald et al.	436	69	
	5,858,187	2/97	Ramsey et al.	204	452	
	5,976,465	11/99	Luzzana et al.	422	82.03	
0	5,665,312	9/97	Sperber et al.	422	81	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER	DATE CONSIDERED
<i>Kelli Bay</i>	<i>12/8/03</i>
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

12/20/89



#5

Form PTO 1449			
ATTY DOCKET NO. 10-98G		SERIAL NO. 09/688,055	FILING DATE 10/13/00
APPLICANT Holl et al.		GROUP 1743	

U.S. PATENT DOCUMENTS

Exmr. Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
8	6,176,991	01/23/01	Nordman	204	601	
	6,171,865	01/09/01	Weigl et al.	436	52	
	6,153,073	11/28/00	Dubrow et al.	204	453	
	6,124,138	09/26/00	Woudenberg et al.	436	518	
	6,033,628	03/07/00	Kaltenbach et al.	422	68.1	
	6,073,482	06/13/00	Moles	73	53.01	
	6,027,627	02/22/00	Li et al.	204	603	
✓	5,744,366	04/28/98	Kricka et al.	436	63	
9	5,500,187	03/19/96	Deoms et al.	422	58	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes/No
8	WO 99/29497	17.06.99	PCT	B32B 3/00	31/00	

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.